

Fig. 1

```

input  P1,P2,P3,P4;
output PO2,PO1;
assign sel1= P1&P2;
assign sel2= P3|P4;
assign w1= P2^P3;
assign PO2= w2|P1;
always@(sel1,w1,w2)
begin
    case (sel1)
    0 : PO1=w1;
    1 : PO1=w2;
    default : PO1=w1;
    endcase
end
always@(sel2,P1,P3,P4)
begin
    if (sel2)
        w2=P3;
    else
        w2=P4;
    end
end

```

Fig. 2

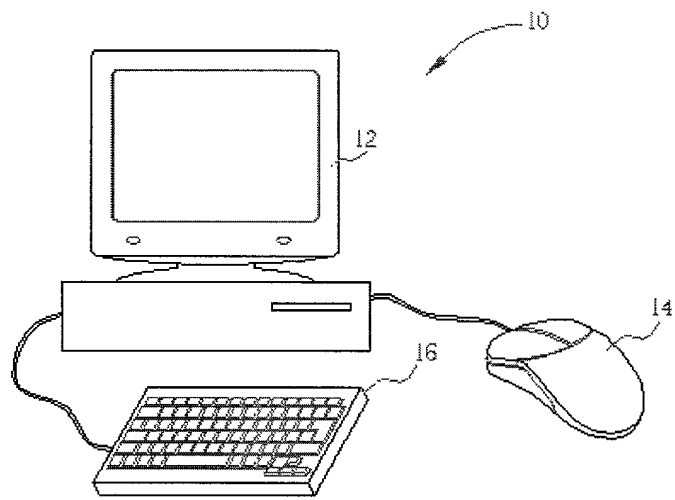


Fig. 3

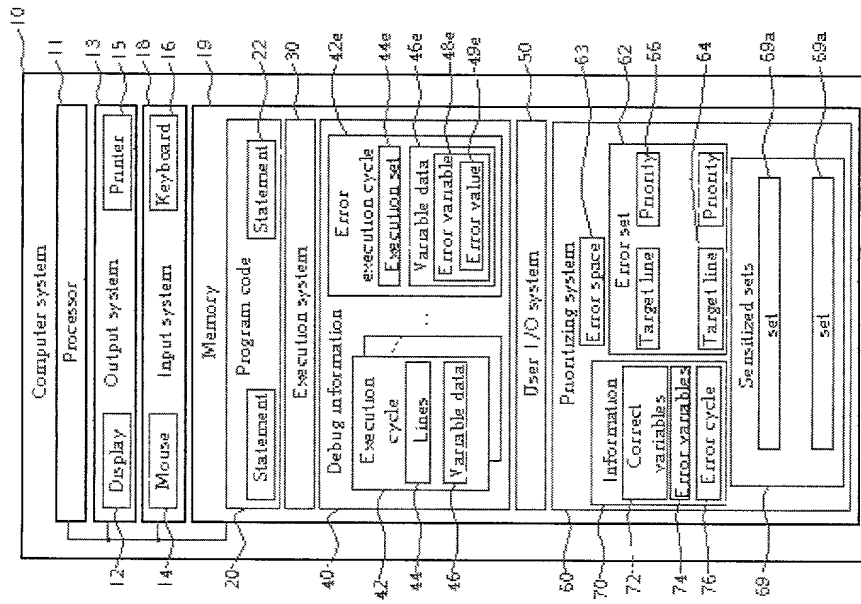


Fig. 4